



SURVEILLANCE CAMERA | EXPEDITION SERIES



USER MANUAL

Models :

BF-10^{HD}

BF-12^{HD}



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CAMERAS WITH CELLULAR TRANSMISSION

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Package contents



SPYPOINT®
Camera



Quick start
guide



USB
cable

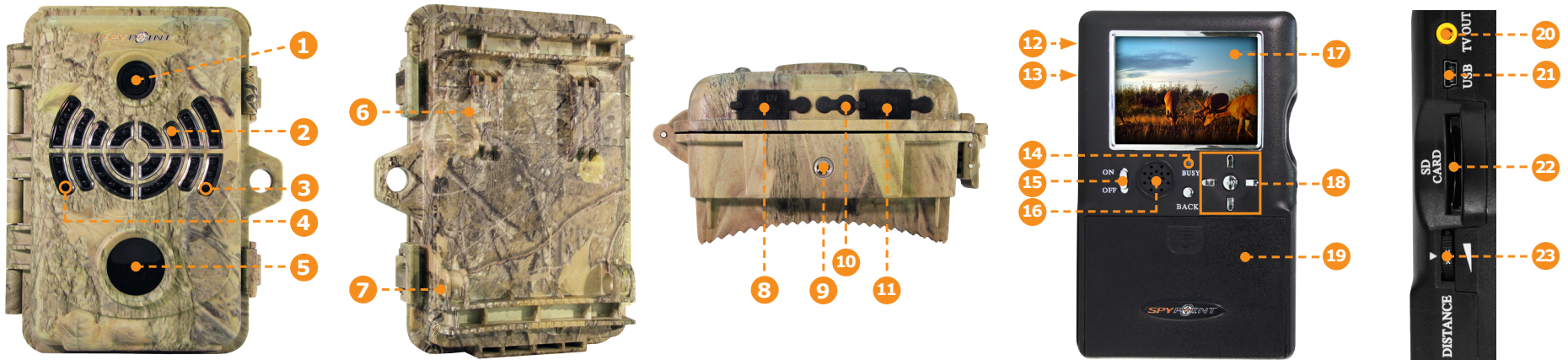


Audio-video
cable



Installation
strap

Components



- 1 Photo lens
- 2 Invisible LEDs
- 3 Test light
- 4 Light sensor
- 5 Fresnel lens

- 6 Slot for installation strap
- 7 Cable lock hole

- 8 12V Power jack
- 9 Tripod mount
- 10 Microphone
- 11 Solar panel jack

- 12 Access to the time battery
- 13 Battery switch
- 14 BUSY Led
- 15 ON/OFF
- 16 Built-in speaker (BF-12HD)
- 17 Viewing screen
- 18 Navigation buttons
- 19 Battery case

- 20 TV OUT
- 21 USB port
- 22 SD card slot
- 23 DISTANCE dial

Components

1	Photo lens	Image sensor and infrared filter.
2	Invisible LEDs	Night lighting to obtain black and white photos and videos.
3	Test light	Flashes in TEST mode when there is detection and flashes 60 seconds in PHOTO/VIDEO mode to allow the user to leave without being photographed or recorded.
4	Light sensor	Allows the lighting of the LEDs panel at night.
5	Fresnel lens	Expands the detection area and increases the sensitivity of the camera's motion sensor.
6	Slot for installation strap	Allows the user to install the camera using the installation strap included (p.10).
7	Cable lock hole	Allows the user to install a CL-6FT cable lock, sold separately (p.20).
8	12V power jack	This camera can be powered from an external 12-volt DC input such as a 12V battery or a 12V adapter, each sold separately (p.19).
9	Tripod mount	Standard ¼-20" tripod mount.
10	Microphone	Record sound in video mode (p.15).
11	Solar panel jack	Allows the user to connect a solar panel (SP-12V) to maintain the charge of the lithium battery pack (LIT-09/LIT-C-8), sold separately (p.19).
12	Access to the time battery	Battery that keeps the time and date in memory (p.8).

13	Battery switch	Allows the user to select the power source according to the type of batteries used (p.7).
14	BUSY LED	Lights up when the camera is recording (p.9).
15	ON/OFF	Allows the user to turn on/off the camera.
16	Built-in speaker (BF-12^{HD})	When viewing videos, allows to hear the sound.
17	Viewing screen	Allows the user to access the main menu and view photos/videos. Screen with zoom and pan functions (p.10).
18	Navigation buttons	Buttons to set the camera (p.10).
19	Battery case	Case for AA batteries or a rechargeable lithium battery pack (p.7).
20	TV OUT	Allows the user to view or delete photos/videos directly on TV (p.13).
21	USB port	To transfer photos/videos to a computer (p.16).
22	SD card slot	An SD card is required to record photos/videos (p.9).
23	DISTANCE dial	Allows the user to adjust the distance of detection and the sensitivity of the detector (p.13).

Power

The battery level is shown in the bottom right corner of the screen when the camera is in TEST mode. When a single line remains, the camera will continue to take photos but we strongly recommend to change the AA batteries or charge the lithium battery pack before they are empty. (see figure below). If a video is being recorded and the batteries level reaches 0%, the camera saves the file before shutting down.




AA BATTERIES

This camera requires 6 AA batteries (1.5V). The use of alkaline or lithium batteries is strongly recommended. During the installation of the AA batteries, slide the battery switch to ALK (i.e. alkaline). Insert the batteries as indicated inside the battery case. Battery polarity must be followed.



6 alkaline AA batteries

 Please note that the voltage of rechargeable AA batteries (1.2V) is insufficient to power the SPYPOINT® camera. We also recommend the use of new batteries to ensure maximum performance of the camera.

LITHIUM BATTERY PACK

This SPYPOINT® camera can be powered by a rechargeable lithium battery pack LIT-09/LIT-C-8 (sold separately, p.19). This type of battery is less affected by cold temperatures and lasts up to 3 times longer than an alkaline batteries. During the installation of the lithium battery, slide the battery switch to LIT-09.



Lithium battery pack
LIT-09/LIT-C-8

EXTERNAL (12V)

This camera can also be powered by an external 12-volt DC input such as a 12-volt battery (KIT-12V, BATT-12V or KIT6V/12V) or a 12-volt adapter (AD-12V), each sold separately (p.19). During the installation of a 12-volt connection, slide the battery switch to ALK (the AA batteries can remain safely inside the camera). If combined with a lithium battery pack, slide the battery switch to LIT-09. For available accessories, see p.19.

SOLAR PANEL

This camera also offers the possibility to connect a solar panel (SP-12V sold separately, p.19) to **maintain** the charge of the lithium battery pack (sold separately, p.19). While installing the rechargeable lithium battery pack, slide the battery switch to LIT-09 to activate the charging system of the solar panel.

Battery switch position (depending on the power source)

Power source	Battery switch position
<ul style="list-style-type: none"> • 6AA • 12V • 12V + 6AA 	ALK
<ul style="list-style-type: none"> • LIT-09* • 12V + LIT-09* • Solar panel + LIT-09* 	LIT-09

* Rechargeable lithium battery pack, sold separately (LIT-09) or with a charger (LIT-C-8).

Power

TIME BATTERY

The camera has a CR2032 lithium button battery which saves the time and date. To replace the battery:

1. Turn off the camera and remove it from the housing.
2. Using a flat screwdriver, push the tab to the right.
3. While pushing the tab, remove the compartment of the camera.



4. Replace the battery, the polarity must be respected (side + facing up).



Memory card/ "BUSY" LED

MEMORY CARD

A memory card is required to record photos and videos. The camera is compatible with SD/SDHC memory cards, up to 32 GB capacity. (sold separately, p.19).

When the PHOTO, VIDEO or VIEW mode is selected and no memory card is used, the screen displays "Insert memory card". When the SD card is full, the screen displays "Memory card full".

Here is a table of the approximate number of photos and length of videos that can be recorded with different memory card capacities. Many photo and video resolutions are noted, see those corresponding to the camera.

	4 GB	8 GB	16 GB	32GB
Photo				
3 MP	4100	8200	16400	32800
4 MP	3800	7600	15200	30400
5 MP	3400	6800	13600	27300
6 MP	3200	6300	12600	25300
7 MP	2700	5500	10900	21800
8 MP	2400	4800	9500	19000
10 MP	1900	3800	7600	15200
12 MP	1600	3200	6300	12600
Video				
320 x 240	4 h	8 h	16 h	32 h
640 x 480	2h10	4h10	8h20	16h40
1280 x 720	40 min	1h20	2h40	5h20

INSERTING THE MEMORY CARD



Insert an SD/SDHC memory card (up to 32 GB capacity) in the card slot. The card is inserted correctly when a click is heard.



Before inserting or removing a memory card, always turn off the camera to prevent loss or damage of the photos already recorded.

REMOVING THE MEMORY CARD

Lightly press the memory card into the camera once to pop it out of the slot and remove it.

"BUSY" DEL

The "BUSY" light, located below the screen, lights up when the camera records a file.

Settings

Use the ◀, ▶, ▲ or ▼ buttons to navigate in the interface and change options. Use the OK button to confirm and the BACK button to return to the previous menu.



PHOTO

Allows the user to take photos. When the PHOTO mode is selected, the test light in front of the camera will flash for 60 seconds to allow the user to leave the area without being photographed.



VIDEO

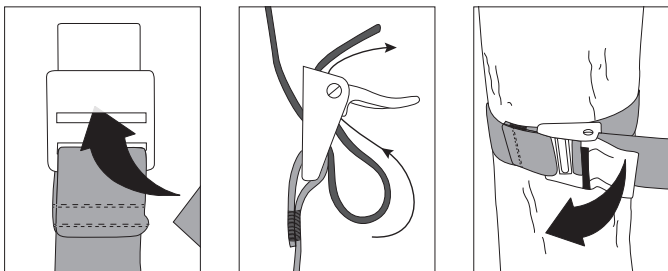
Allows the user to take videos. When the VIDEO mode is selected, the test light in front of the camera will flash for 60 seconds to allow the user to leave the area without being recorded.



TEST

Allows the user to test the detection system of the camera. When the TEST mode is selected, no photo or video is recorded. Pass in front of the camera from left to right. When the camera detects a motion, the test light blinks to indicate that the camera would normally have saved a photo or video. If the system does not detect the movement, increase the detection distance using the DISTANCE wheel or realign the system differently. In TEST mode, it is possible to take a photo by pressing the OK button. The photo is saved and appears in the VIEW mode.

INSTALLATION WITH THE SUPPLIED STRAP



Recommended installation height: about 3 feet above the ground.
Do not place the camera facing the sun.



SETTINGS

Allows the user to change the different settings. To set the system in English, hold the button ▼ until "Language" is highlighted. Press OK, select "English" with the button ▲ or ▼ and confirm the choice with OK. The system will then change the menus to English.

Start time/Stop time:

Allows the user to set the operation period of the camera. The start and stop time programmed hours are the hours during which the camera is in action and records photos or videos. Example: If the user selects "15:00" start time and "19:00" stop time, the camera will only detect for that period of time and will stay inactive for the remaining hours. Press OK and use ▲ or ▼ to adjust the hours. Press OK again to set the minutes. When the time is properly set, press OK.

For a 24 hour activation, the same start and stop times must be entered (example: 00:00 as start time and 00:00 as stop time. These hours are the basic settings of the camera.

Note: The hours are recorded over a 24-hour period. For example, 5pm is 17:00 (00:00 means midnight).

Delay:

(10s/30s/1m/5m/15m/30m)

Allows the user to choose the time interval between each detection before the camera records the next photo or video. A longer delay minimize the number of photos taken and maximize the battery life. A shorter delay maximize the number of photos taken but requires more battery power. The shorter times interval are recommended when the cameras is used for security purposes.

Note: A shorter detection delay results in a shorter battery life.

Multi-shot:

(1/2/3/4/5/6 consecutive shots)

Takes up to 6 consecutive shots at each detection, with a 10-second delay between each photo. This option allows the user to get up to 6 photos from different angles when the camera is in PHOTO mode.

Settings

Video length: (10s/30s/60s/90s)

Allows the user to select the duration of the recording when the camera is set in VIDEO mode.

Language: (English/Français/Deutsch/Italiano/Español)

Allows the user to select a language for the camera menus.

Date:

Allows the user to set the date as Month/Day/Year.

Time:

Allows the user to set the time as Hour/Minute.

Stamp: (Yes/No)

Allows the user to have date, time, temperature and moon phases printed on the photos.

New moon:

Waxing Crescent:

First Quarter:

Waxing Gibbous:

Full moon:

Waning Gibbous:

Last Quarter:

Waning crescent:



Quality: (Low/Medium/High)

Allows the user to set the photo and video resolution. The low resolution allows the user to save space on the card and the high resolution allows the user to get a better photo quality.

When the quality is set to "High", the video resolution is automatically set to 1280 x 720 and when is set to "Medium" or "Low", the video resolution is automatically set to 640 x 480.

Temperature: (°C/°F)

Allows the user to select the temperature display.

Continuous: (Yes/No)

Allows the user to take photos or videos even if the memory card is full. The camera will continue to record photos or videos by deleting the first recorded files.

Power: (Batteries/Electricity)

Allows the user to select the type of power supply.

Choose "Electricity" if the camera is powered by a main electric power-supply (using a 12-volt DC adapter, #AD-12V, sold separately (p.19)). A main electric power supply is recommended when camera is used for security purposes. It provides an instant trigger time when a movement is detected. The lithium battery pack and the AA batteries can remain safely inside the camera and it is ideal for blackouts. A 12-volt DC adapter that can provide a minimum of 800 mA is required (p.19).

Note: When using a main electric power supply, the MULTI-SHOT mode and the DELAY option are disabled as the camera triggers instantly every time it detects motion. Also, the printing of the temperature on each photo is disabled.

Settings

Time lapse:

(Off/30s/1m/3m/5m/15m/30m/1h)

Allows the camera to take photos at regular preset intervals. For example, if the option "5m" is selected in the TIME LAPSE mode, the camera takes a photo every 5 minutes during the period of operation (start time and stop time) even if there is no detection. This option allows the user to obtain photos of subjects outside the detection range of the camera.

Note: The TIME LAPSE mode only applies in PHOTO mode, not in VIDEO mode. When TIME LAPSE mode is selected, the DELAY option and the MULTI-SHOT mode are disabled. The photo resolution remains the same except for the low resolution which is reduced to 800 x 600.

Remote control (RC-1): (BF-12^{HD})

(On/Off)

Allows the user to use the RC-1 remote control which works with the REMOS™ wireless technology, sold separately (p.19). The remote control allows to activate/deactivate the detection of the camera and to remotely take a photo/video in an area of 500 ft.

Wireless sensor (MS-1): (BF-12^{HD})

(Off/1/2/3/4/5/6/7)

Allows the camera to be triggered wirelessly by one or more MS-1 devices through the REMOS™ wireless technology, sold separately (p.20).

IR-Booster: (BF-12^{HD})

(On/Off)

Allows the camera to trigger, up to a distance of 50ft, one or more IR-BOOSTER infrared lighting devices without the use of an additional transmitter through the REMOS™ wireless technology. Sold separately (p.20)



VIEW

Allows the user to view or delete recorded photos and videos on the camera screen or on a TV.

• Viewing with the screen of the camera:

When the VIEW mode is selected, the latest photo or video recorded appears on the screen automatically. Press ► or ◀ to view next or previous images. Press ▲ and ▼ to zoom in and out. When the zoom is activated, press OK to move the image by using ◀, ►, ▲ or ▼. Press OK again then ▼ to return to normal view.

Press OK to view the different options available.

Play:	Allows the user to play or pause the video on the screen. (This option is available only for videos)
Date and time:	Allows the user to view the date and time printed on the photo.
Protect:	Allows the user to protect a photo or video to prevent it from being deleted by selecting "Delete All".
Delete:	Allows the user to erase from the memory card, the photo or the video seen on the screen.
Delete all:	Allows the user to erase from the memory card all stored photos and videos, with the exception of protected files.
Format:	Allows the user to format memory card and delete all protected photos and videos.
Exit:	Allows the user to exit the menu to return to the viewing screen.

Note: The number of yellow stars that appear to the right of the screen corresponds to the resolution of the photos.

★=Low resolution ★★=Medium resolution ★★★=High resolution

Settings/Distance

• Watching on TV:

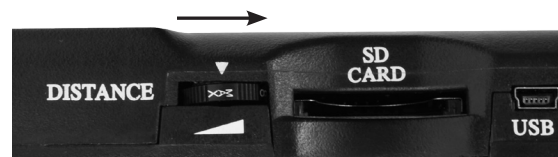
Allows the user to view or delete the photos or videos directly on a TV.

1. Turn on the camera.
2. Connect the yellow end of the RCA cable supplied into the VIDEO IN of the TV and the other end into the TV OUT of the camera. The options are the same as viewing on the screen of the camera (previously mentioned).



DISTANCE

Turn the DISTANCE dial to the right to increase the detection distance and the sensitivity of the detector.



The camera is equipped with a detector sensitive to infrared. The system will only detect a heat source in motion. The greater the mass of heat, the more sensitive the system is. The range of detection is between 5 and 65 feet. The best way to adjust the distance is to set the camera to TEST mode. Make sure to have the least amount of objects possible in front of the camera during positioning. This will prevent photos being taken by the camera when oriented towards the sun at the same time an object moves in front of the camera (e.g. a branch).

Here is a table of approximate detection distances and width of the detection area according to the DISTANCE dial setting. The data can be affected by the size of the subject and the outside temperature. **Note that this data is for illustrative purposes only.**

Value on dial	Sensitivity	Detection distance (ft)	Width of the detection area (ft)	
MIN	<div style="text-align: center;"> ↓ Gradually increases ↓ </div>	5-30	3	
2				
4				
6		30-50	15	
8				
MAX		50-65	30	

REMOS™ Technology (BF-12^{HD})

The cameras compatible with the REMOS™ technology (wireless functionalities), can be combined with:

- RC-1 :Remote control
Allows the user to control the camera remotely.
- MS-1 :Motion sensor
Allows the user to trigger the camera remotely.
- IRB-W-B : Infrared Booster
Used to optimize the infrared lighting to accentuate the quality of night photos and videos.

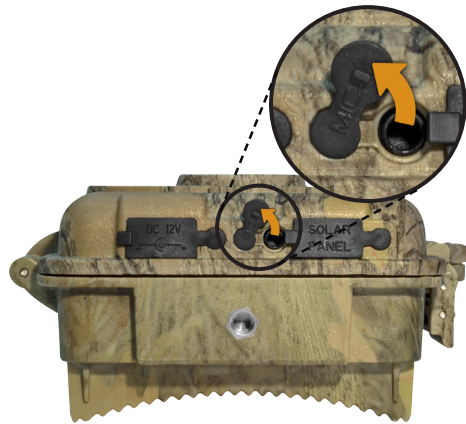
See SETTINGS (p.12) and AVAILABLE ACCESSORIES (p.19) sections for more details.



The optional steel security box (SB-91) affects the wireless functionalities of products compatible with REMOS™ technology.

Sound recording

The SPYPOINT® camera offers the possibility to record sound in VIDEO mode. When the VIDEO mode is selected, the camera automatically records the sound. Under the camera, you will find a rubber cap with the inscription MIC. If the user does not want to record the sound, the rubber cap needs to stay in place. If sound recording is required, the user must lift the rubber cap and turn it slightly so that the microphone receiver is completely cleared (See figure below).



File transfer to a computer

To transfer photos/videos to a computer:

1. Turn OFF the camera.
2. Connect the USB cable (supplied) from the camera to a computer



3. The computer will detect the camera and install the driver automatically.
4. Click on "My Computer" and select "Removable Disk".
5. Then click on "DCIM" and "100DSCIM" to find all recorded photos and videos.
6. Drag or save the files to the desired location.

Taking the memory card (sold separately, p.19) out of the camera and inserting it into the computer slot will achieve the same results.

Note: Videos in .MP4 format require the use of a compatible video player software such as VLC, Windows Media Player or QuickTime.

Troubleshooting

Problem	Possible solutions
Impossible to turn on the camera	<ul style="list-style-type: none"> • Verify if there are batteries in the camera. • Verify if the batteries are correctly installed (p.7). • Verify if the battery switch position is positioned according to the power source (p.7). • Install the latest update (available on www.spypoint.com under SUPPORT section). • Replace alkaline batteries or recharge the lithium battery pack.
The screen of the camera turns off	<ul style="list-style-type: none"> • The camera may be set to PHOTO or VIDEO mode and the screen turns off after a period of 60 seconds in order to preserve battery life. • The camera automatically resets itself to PHOTO or VIDEO mode (depending of the latest mode used or selected) after 2 minutes of inactivity on the main menu. • To return to the screen, turn off the camera and turn it on again.
The camera does not respond	<ul style="list-style-type: none"> • Remove the batteries and reinstall them (p.7). • Replace alkaline batteries or recharge the lithium battery pack.
The camera works, but is losing its time and date settings	<ul style="list-style-type: none"> • The time battery must be replaced (p.8).
Impossible to take photos/videos	<ul style="list-style-type: none"> • Verify if there are batteries in the camera. • Replace alkaline batteries or recharge the lithium battery pack. • Memory card is full. • Verify if the camera is turned on.

No person/animal on photos	<ul style="list-style-type: none"> • Sunrise or sunset can trigger the sensor. Camera must be re-orientated. • At night, the motion detector may detect beyond the range of the IR illumination. Reduce distance setting (p.13). • Small animals may trigger the unit. Reduce distance setting (p.13) and/or raise height of camera. • Motion detector may detect animals through foliage. • If a person or animal moves quickly, it may move out of the camera's field of view before the photo is taken. Move the camera further back or redirect the camera. • Make sure the mounting post or tree is stable and does not move.
Red light in front of the camera blinks	<ul style="list-style-type: none"> • Camera is set in TEST mode. • Camera is set in PHOTO or VIDEO mode. The red light in front of the camera flashes for 60 seconds to allow the user to leave without being photographed or recorded.
The photos/videos do not appear on the television	<ul style="list-style-type: none"> • Verify if the camera is correctly connected to the television using the RCA cable (p.13). • Verify if the memory card contains photos/videos.
The computer does not recognize the camera	<ul style="list-style-type: none"> • Verify if the camera is properly connected to the computer using the USB cable (p.16).
The computer can't play videos	<ul style="list-style-type: none"> • The .MP4 video format requires the use of a video player software compatible such as VLC, Windows Media Player or QuickTime.

Error messages

Error message	Possible solutions
Insert memory card	The use of a memory card is required to record video and photos.
Memory card full	<ul style="list-style-type: none">• Delete the files or use a new memory card.• Afterwards, the "Continuous" option can be activated for a continuous recording (p.11).
Card error	<p>The camera cannot access the memory card.</p> <ul style="list-style-type: none">• Turn off the camera and turn it on again• Remove the memory card and insert it again.• Verify if the gold contacts are clean.• Format the memory card
Low battery	Appears on the screen just before the camera turns off. Recharge the batteries or insert new ones. Always verify the battery level before using the camera.
No image	There are no files to view. Verify if the memory card contains photos/videos.
Protected file	It is impossible to delete the file because it is protected. To delete this file and all the others, just format the memory card.

Available accessories

To obtain more information on the available accessories, go to www.spypoint.com. Here are the main accessories available:

POWER



12V DC Power cable

#CB-12FT, 12 ft power cable with alligator clips at one end to connect a 12V battery to a camera.



12-volt Adaptor

#AD-12V, AC adaptor (6V to 12V). Powers the camera from an electrical outlet.



Lithium battery pack

#LIT-09, Additional rechargeable lithium battery pack fits most SPYPOINT® products.



Lithium battery pack & charger

#LIT-C-8, Rechargeable lithium battery pack and AC charger with charge indicator light. Fits most SPYPOINT® products.



Rechargeable 6V-12V battery, charger & housing kit

#KIT6V-12V, Universal kit with two 6V rechargeable batteries (2.8Ah), with 6V (5.6Ah) and 12V (2.8Ah) output configuration and AC charger. Water resistant ABS plastic case, 12 ft power cable and strap included. Camo pattern. Compatible with all SPYPOINT® products equipped with a 12V power jack.



Rechargeable 12V battery & charger set

#BATT-12V, 12-volt 7.0Ah rechargeable battery and AC charger to power the camera.



Rechargeable 12V battery, charger & housing kit

#KIT-12V, 12-volt 7.0Ah rechargeable battery with a water resistant ABS plastic case, AC charger, 12 ft power cable (#PW-12FT) and carrying strap included. Compatible with all SPYPOINT® products equipped with a 12V power jack.



Solar panel

#SP-12V, Solar panel with adjustable steel mounting kit. Maintains the charge of the lithium battery pack directly into compatible devices. Can also be combined with any 12-volt battery. 9 ft power cable.



Remote control (BF-12^{HD})

#RC-1, Four button wireless remote control. Works with all cameras compatible with REMOS™ technology (up to 500 ft). Battery included.



Spare power cable

#PW-12FT, Spare 12 ft power cable, to connect the camera to the KIT-12V.

MEMORY CARD



SD Memory card 8GB

#SD-8GB, SDHC memory card 8 GB, High speed Class 6.

Available accessories

INSTALLATION AND SECURITY



Cable lock

#CL-6FT, 6 ft cable lock fits all SPYPOINT® cameras.



Camera mount

#MA-360, Adjustable mounting arm, fits all cameras that have a standard 1/4-20" tripod mount. It can rotate 360° and tilt approx +/- 90°. Also available in black.



Steel security box

#SB-91, Steel box to secure the camera against theft. It also protects it from breakage caused by bears or other animals. Fits all SPYPOINT® 5.1" W x 6.9" H x 2.6" D cameras (except TINY, LIVE, SMART and SUMMIT PRO series). Also available in black.



Tripod

#TP-CAM, SPYPOINT® Lightweight tripod, in black aluminum, with a unique anchor system and a removable quick release plate. Max. height: 4.9 ft (1.5 m), min. height: 1.7 ft (0.5 m), max. load weight: 11 lbs (5 kg). Fits most SPYPOINT® products.

INFRARED BOOSTER



Invisible LEDs IR-Booster

#IRB-W-B, 100 invisible LEDs (completely invisible to the naked eye) wireless infrared module that allows the user to amplify the infrared lights at night for clearer shots. Compatible with REMOS™ technology. When used with REMOS™ compatible cameras, the transmitter is not necessary.



IR-Booster

#IRB-W, 100 LED wireless infrared module that allows the user to amplify the strength of the infrared lights for clearer night shots.

OTHERS ACCESSORIES



REMOS™ Wireless motion sensor (BF-12^{HD})

#MS-1, Wireless motion sensor that allows you to trigger the camera remotely, up to 500 ft away. Works with all cameras compatible with REMOS™ technology. Requires 1 alkaline 9V battery or a 12V power supply (not included). Also available in black.

Specifications (BF-10^{HD})

Photo recording

Photo resolution	3 MP, 5 MP, 10 MP
File format	JPG
Time lapse mode	Predefined intervals from 30 s to 1 h
Multi-shot mode	Up to 6 photos per detection
Stamp (only on photos)	Date, time, temperature (°C/°F) and moon phase
Capture mode	Color by day, black and white by night

Video recording

Video resolution	640 x 480, 1280 x 720
File format	AVI
Sequence length	Adjustable from 10 to 90 s
Capture mode	Color by day, black and white by night

Audio

Sound recording
(Automatically recorded in video mode)

Mono

Memory storage

Support	<ul style="list-style-type: none"> • Internal memory : none • External memory : SD/SDHC card (up to 32 GB)
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Viewing

Built-in screen	2.4" LCD
TV output	Composite video (PAL/NTSC)
Computer output	USB 2.0

Power source

Accessories sold separately, p.19

Alkaline or lithium batteries	6 x AA
Lithium battery pack	Rechargeable battery pack (LIT-09/LIT-C-8)
External (12V jack)	12V battery (KIT6V-12V, KIT-12V, BATT-12V) or 12V adapter (AD-12V)
Solar panel	Solar panel (SP-12V) combined with rechargeable battery pack (LIT-09/LIT/C-8)

Detection system

Motion sensor	PIR
Detection angle	30°
Detection range	Adjustable from 5 to 65 ft
Delay between each detection	Adjustable from 10 s to 30 min
Electricity option	Instant trigger time (Connection to an electrical outlet only)

Night time illumination system

LEDs	46 LEDs
Type	Invisible LEDs
Exposure	Automatic infrared level adjustment

Optical field of view

50°

Dimensions

5.1" W x 6.9" H x 2.6" D

Recommendations

Operating temperature	(-4 °F to +122 °F) (-20 °C to + 50 °C)
Storage temperature	(-22 °F to +167 °F) (-30 °C to + 75 °C)

Specifications (BF-12^{HD})

Photo recording

Photo resolution	5 MP, 8 MP, 12 MP
File format	JPG
Time lapse mode	Predefined intervals from 30 s to 1 h
Multi-shot mode	Up to 6 photos per detection
Stamp (only on photos)	Date, time, temperature (°C/°F) and moon phase
Capture mode	Color by day, black and white by night

Video recording

Video resolution	640 x 480, 1280 x 720
File format	AVI
Sequence length	Adjustable from 10 to 90 s
Capture mode	Color by day, black and white by night

Audio

Sound recording
(Automatically recorded in video mode)

Mono

Memory storage

Support	<ul style="list-style-type: none"> • Internal memory : none • External memory : SD/SDHC card (up to 32 GB)
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Viewing

Built-in screen	3.0" LCD
TV output	Composite video (PAL/NTSC)
Computer output	USB 2.0

Power source

Accessories sold separately, p.19

Alkaline or lithium batteries	6 x AA
Lithium battery pack	Rechargeable battery pack (LIT-09/LIT-C-8)
External (12V jack)	12V battery (KIT6V-12V, KIT-12V, BATT-12V) or 12V adapter (AD-12V)
Solar panel	Solar panel (SP-12V) combined with rechargeable battery pack (LIT-09/LIT/C-8)

Detection system

Motion sensor	PIR
Detection angle	30°
Detection range	Adjustable from 5 to 65 ft
Delay between each detection	Adjustable from 10 s to 30 min
Electricity option	Instant trigger time (Connection to an electrical outlet only)

Night time illumination system

LEDs	46 LEDs
Type	Invisible LEDs
Exposure	Automatic infrared level adjustment

Optical field of view

50°

Dimensions

5.1" W x 6.9" H x 2.6" D

Wireless

REMOS™ Technology	This camera is compatible with the REMOS™ Technology.
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Recommendations

Operating temperature	(-4 °F to +122 °F) (-20 °C to + 50 °C)
Storage temperature	(-22 °F to +167 °F) (-30 °C to + 75 °C)

Regulation

FCC REGULATIONS

FCC Part 15

FC This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the Federal Communications Commission (FCC) rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications to this equipment not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Industry Canada

This device complies with Industry Canada licence-exempt RSS standard(s): Operation is subject to the following Two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device. The term "IC:" before the certification/registration number only signifies that the Industry Canada technical specifications were met. This product meets the applicable Industry Canada technical specifications.

CE Hereby, GG Telecom declares that this camera is in compliance with the essential requirements and other relevant provisions of Directive 99/5/EC. The user can obtain a copy of the Declaration of Conformity by e-mail at **info@spypoint.com**.



RoHS

Limited warranty and repair service

WARRANTY AND REPAIR

This SPYPOINT® product designed by GG Telecom, is covered by a one (1) year warranty on material and workmanship starting from the original date of purchase. The sales receipt is your proof of purchase and must be presented if warranty service is needed. This warranty will be honored in the country of purchase only.

This warranty does not cover any GG Telecom product which has been subjected to misuse, neglect and accidents or has been improperly used or maintained. In addition, this warranty is not applicable for all products purchased online from an unauthorized dealer. Any modification or tampering of the product will affect its operation, performance, durability and voids this warranty.

INSTRUCTIONS FOR REPAIR SERVICE

GG Telecom will repair the product without charge or replace it at its discretion with an equivalent product, if it has a manufacturing defect covered by the warranty described previously. We will pay the shipping costs only for the return of the products covered by the warranty. The shipping costs for an item sent to us will be assumed by the customer.

Repairs for damages not covered by the warranty will be subject to a reasonable charge. The customer will pay all shipping costs.

- 1. BEFORE** sending a product for repair, please contact our technical support team at 1-888-779-7646 or tech@spypoint.com. Clearly describe the problem and give a phone number where we can reach you. It happens regularly that some problems can be solved over the phone.
- 2.** If a product needs to be sent, an RMA number will be given to the customer (Return Merchandise Authorization).
- 3.** Prepare a package for GG Telecom and include the original receipt or a copy.
- 4.** Write the RMA number on the outside of the package and send it to:

CANADA
GG Telecom
120 J.Aurèle-Roux
Victoriaville, QC
G6T 0N5

United States
GG Telecom
555 VT route 78
Swanton, Vermont
05488

IMPORTANT: Under no circumstances will GG Telecom accept returned products without a Return Material Authorization number (RMA). It is essential to contact us before making a return.

The customer is liable for loss or damage to the product that may occur during the transport to GG Telecom. We recommend you to use a traceable method of shipping to ensure your protection.

WWW.SPYPOINT.COM